

## APPARATUS AND METHODS FOR FIBER OPTIC LINK WITH BUILT-IN TEST

### ABSTRACT OF THE DISCLOSURE

Apparatus and methods for fiber optic links having a built-in test are disclosed. In  
5 one embodiment, an optical component includes a signal source, and a controller operatively  
coupled to the signal source. The signal source is adapted to output a first combined optical  
signal having a first optical signal portion of a first frequency and a second optical signal  
portion of a second frequency. The first frequency is substantially greater than the second  
frequency. The controller is adapted to induce the signal source to output the first and  
10 second optical signal portions, the first optical signal portion being associated with a main  
communication function and the second optical signal portion being associated with a  
monitoring function.

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